

Date: Mon, 13 Jun 94 04:30:29 PDT
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>
Errors-To: Ham-Equip-Errors@UCSD.Edu
Reply-To: Ham-Equip@UCSD.Edu
Precedence: Bulk
Subject: Ham-Equip Digest V94 #184
To: Ham-Equip

Ham-Equip Digest Mon, 13 Jun 94 Volume 94 : Issue 184

Today's Topics:

 ADI repair where?
 IC-2SRA vs. FT-530 (6 msgs)
 KENWOOD 733 HELP
 Need schematics for Yaesu FL101/FR101
 scrambling for HF/SSB? (2 msgs)
 seek old CDR rotor (or replacement)

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 12 Jun 94 21:17:13 CST
From: ihnp4.ucsd.edu!agate!spool.mu.edu!news.clark.edu!netnews.nwnet.net!
ns1.nodak.edu!news.uoknor.edu!news.ualr.edu!athena.ualr.edu!
pmstuckey@network.ucsd.edu
Subject: ADI repair where?
To: ham-equip@ucsd.edu

Hiya.. anyone know where I could get an ADI sender 145 fixed..
This is a 2m handheld radio with a transmitt problem.. if anyone knows of
a place that I could send it to get it fixed I would really like to know..
A Certified repair person would be prefered.. Thanks..

* Peter Stuckey *alias KB5WCE* Internet ---> PMSTUCKEY@UALR.EDU *
* University of Arkansas at Little Rock Biology Undergraduate *

Date: 12 Jun 1994 21:40:01 GMT
From: ihnp4.ucsd.edu!swrinde!gatech!concert!bigblue.oit.unc.edu!samba.oit.unc.edu!
not-for-mail@network.ucsd.edu
Subject: IC-2SRA vs. FT-530
To: ham-equip@ucsd.edu

Hello!

I need some advice...

I currently have ~\$500 of spending money with which I'd like to purchase an HT. Considering that I don't have a scanner yet, either, and the fact that scanners which can receive cellular frequencies are dwindling fast, I'd like to pick up a transciever with a scanner built-in. (Not to listen to cellular, mind you. I would never do that...)

I had been planning to purchase an Icom 2SRA, but was recently told that the Yeasu FT-530 also covers many of the same frequencies, with a keyboard mod. Considering that they are comparably priced, but that the 530 is a dual-bander, it sounds like a much better deal to me.

A few questions:

Exactly what is the mod for the 530, and which frequencies can be received? Is the sensitivity as good as the 2SRA? Can it receive WFM signals, as well?

I live in south-suburban Chicago... Is the 440 band really that important? i.e. what does the 440 band have that 2M doesn't?

I've been told that Icom's are very difficult to use... Is this really the case? Is the Yeasu much easier to use?

Where should I purchase ham equipment from? I can't seem to find a dealer in the area, so am planning on purchasing it from AES. Has anyone had any problems with them?

Any other advice would be greatly appreciated...

Tnx.

Michael Holl - N9TWU

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Mike.Holl@launchpad.unc.edu

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 \ The above does not represent OIT, UNC-CH, laUNCHpad, or its other users. /

Date: Sun, 12 Jun 1994 23:27:24 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
tedtrost@network.ucsd.edu
Subject: IC-2SRA vs. FT-530
To: ham-equip@ucsd.edu

Michael Holl (Mike.Holl@launchpad.unc.edu) wrote:
: I'd like to pick up a transciever with a scanner built-in. (Not to listen
: to cellular, mind you. I would never do that...)

: I had been planning to purchase an Icom 2SRA, but was recently told that
: the Yeasu FT-530 also covers many of the same frequencies, with a keyboard
: mod. Considering that they are comparably priced, but that the 530 is a
: dual-bander, it sounds like a much better deal to me.

: Exactly what is the mod for the 530, and which frequencies can be
: received? Is the sensitivity as good as the 2SRA? Can it receive WFM
: signals, as well?

I own a 2SRA, so I can't speak about the 530...

: I've been told that Icom's are very difficult to use... Is this really
: the case? Is the Yeasu much easier to use?

I have no problem programming mine. My own opinion is that most radios
offer *some* programming challenge due to the number of features.

: Where should I purchase ham equipment from? I can't seem to find a dealer
: in the area, so am planning on purchasing it from AES. Has anyone had any
: problems with them?

Consider Erickson (sp) Electronics in Chicago. I have no personal
experience with them, but if you want to buy local...

I wish I had gotten a dual bander with some wide-band rx instead of the
2SRA. Don't get a radio for the cellular capability-- myself and most of
the people to whom I've spoken who've listened to cellular have found
ourselves BORED after a week of it. Find someone with a radio that can
scan it and see if listening is exciting for you. Most calls are,
"Honey? I'm on the way home... I'll be home in 10 minutes." That is
IF the cell doesn't change mid-conversation.

Ted N1RDQ
tedtrost@netcom.com

Date: Mon, 13 Jun 1994 00:56:21 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
milcom@network.ucsd.edu
Subject: IC-2SRA vs. FT-530
To: ham-equip@ucsd.edu

Michael Holl (Mike.Holl@launchpad.unc.edu) wrote:
: I had been planning to purchase an Icom 2SRA, but was recently told that
: the Yeasu FT-530 also covers many of the same frequencies, with a keyboard
: mod. Considering that they are comparably priced, but that the 530 is a
: dual-bander, it sounds like a much better deal to me.

The ft-530 will receive from 136-174 and 400-512Mhz. It will work in the
800-960Mhz band but it takes about -80dbm to open the squelch, its close
to -120dbm for the ham bands. When modified it will transmit from
136-174 and from 400-470Mhz. I've checked mine for spurious on a hp
spectrum analyzer when transmitting and found it to be cleaner than a virgin.

The only thing to be wary of is using an external antenna near a
pigin/repeater site - its no worse than any other dualbander for intermod.

--

RF power specialists

milcom@netcom.com

Date: 12 Jun 1994 22:06:28 -0400
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!news.intercon.com!
news1.digex.net!access.digex.net!not-for-mail@network.ucsd.edu
Subject: IC-2SRA vs. FT-530
To: ham-equip@ucsd.edu

re; Cellular ready HT's: The ICOM W2A is ideal, dual band , and chock full
of surprises...

Andy N3LCW

Date: 12 Jun 94 21:42:23 -0500
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!spool.mu.edu!bloom-
beacon.mit.edu!noc.near.net!news.tufts.edu!news.hnrc.tufts.edu!
jerry@network.ucsd.edu
Subject: IC-2SRA vs. FT-530
To: ham-equip@ucsd.edu

In article <2tfvbh\$a9@samba.oit.unc.edu>, Mike.Holl@launchpad.unc.edu (Michael Holl) writes:

> Hello!

>

> I need some advice...

Take this advice with a grain of salt, that is, don't follow it blindly, but be sure to add it to the mix.

> I currently have ~\$500 of spending money with which I'd like to purchase
> an HT. Considering that I don't have a scanner yet, either, and the fact
> that scanners which can receive cellular frequencies are dwindling fast,
> I'd like to pick up a transciever with a scanner built-in. (Not to listen
> to cellular, mind you. I would never do that...)

Then you won't care that the 530 has only 12.5kHz steps in the cellular range, nor that my Standard C558A outperforms my PRO-43 when I've done antenna testing in that range. (The Standard has 10kHz steps. The ICOM W21AT has 30kHz steps, but I've read that it's not very sensitive outside the ham bands. I have no hands on experience to verify this.)

>

> I had been planning to purchase an Icom 2SRA, but was recently told that
> the Yeasu FT-530 also covers many of the same frequencies, with a keyboard
> mod. Considering that they are comparably priced, but that the 530 is a
> dual-bander, it sounds like a much better deal to me.

>

> A few questions:

>

> Exactly what is the mod for the 530, and which frequencies can be
> received? Is the sensitivity as good as the 2SRA? Can it receive WFM
> signals, as well?

mods can be found in pub/hamradio/mods/yaesu at oak.oakland.edu. I believe this mod involves removing a diode.

I don't know the answer to this, but it's good to ask. HT's, as a rule, do not have WFM. One exception is the 2SRA with its 2 antennae. I'm told that the WFM antenna is attached with an earphone type of plug and is not terribly secure.

>

> I live in south-suburban Chicago... Is the 440 band really that
> important? i.e. what does the 440 band have that 2M doesn't?

I don't know Chicago. If it's like other populated areas, the answer may be room for simplex operation after you've established contact on the repeater.

>
> I've been told that Icom's are very difficult to use... Is this really
> the case? Is the Yeasu much easier to use?
>
> Where should I purchase ham equipment from? I can't seem to find a dealer
> in the area, so am planning on purchasing it from AES. Has anyone had any
> problems with them?
>

HRO gives good service, but they don't like returns.

> Any other advice would be greatly appreciated...

Collect many opinions.

>
> Tnx.
>
> Michael Holl - N9TWU
> --
> Mike.Holl@launchpad.unc.edu
> --
> -----
> \ The above does not represent OIT, UNC-CH, laUNCHpad, or its other users. /
> -----

Date: Mon, 13 Jun 1994 04:23:01 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
cleader@network.ucsd.edu
Subject: IC-2SRA vs. FT-530
To: ham-equip@ucsd.edu

Jerry Dallal (jerry@hnrnc.tufts.edu) wrote:
: In article <2tfvbh\$aj9@samba.oit.unc.edu>, Mike.Holl@launchpad.unc.edu (Michael
Holl) writes:
: > Hello!
: >
: > I need some advice...

I have the 530 which I have done the mod on. The receive is 110-180,
300-500, and 800-900 narrow FM and AM. It is transmit capable on all of
the listed except 800-900. Its performance is at least comparable if not
better to my Realistic and Icom scanners. I would highly recommend it to you.
Charles (KD6DJG)

Date: Sun, 12 Jun 94 22:21:02
From: asb!keith.knipschild@uunet.uu.net
Subject: KENWOOD 733 HELP
To: ham-equip@ucsd.edu

I just got my Kenwood 733 and need help setting it up so
I can use it as a REPEATER...

I want to control it via my Dual band HT also....

By the way what function is set when you press and HOLD "F"
(function button) and press "TONE" or "T.ALT" ????? All
I get is ON or OFF.....

Also what is the function whwn you press and HOLD "F" (1 sec)
and then press "MUTE" or "X" ??? it seems to lock the radio, and
add a decimal point at the 100 hz point....

Thanks

KEITH.knipschild@asb.com

N2NJS

Date: Mon, 13 Jun 1994 05:22:12 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
dgf@network.ucsd.edu
Subject: Need schematics for Yaesu FL101/FR101
To: ham-equip@ucsd.edu

I'm trying to revive a Yaesu FL101 transmitter and FR101 receiver. I have
copies of the manuals for each, but they don't have detailed schematics, so
I need copies of each schematic. Will gratefully appreciate copies, and will
pay for copying & postage if desired. 73 Dave WB0GAZ dgf@netcom.com

Date: Sun, 12 Jun 1994 14:43:07 GMT
From: ihnp4.ucsd.edu!swrinde!emory!kd4nc!ke4zv!gary@network.ucsd.edu
Subject: scrambling for HF/SSB?
To: ham-equip@ucsd.edu

In article <2ta7rr\$iu1@kaiwan.kaiwan.com> jlin@kaiwan.com (<>) writes:
>Can anyone advise me if can add scrambling feature in HF/SSB tranceiver?
>The radio will be used oversea, so should have no legal problem with

>FCC.

Most low end scramblers intended for telephones just do a simple frequency inversion of the voice. This isn't effective on SSB because people can just flip to the other sideband to receive the voice in the clear. Works OK on AM and FM though. There are more expensive scramblers that invert segments of the voice bandwidth individually, and also shuffle the order. These are somewhat effective, but a skilled listener can still understand a surprising amount of the speech. For really secure scrambling, you need to take a digital approach, and that's quite expensive, and unsuited to amateur grade HF SSB radios. The military has these, but civilian availability ranges from quite limited to non-existent.

For best security on HF, it's probably better to encode the message rather than attempting to encipher the voice. As far as I know, both codes and cyphers are illegal for amateur use worldwide, so this isn't just an FCC issue. However, codes may be legal on commercial channels in numerous jurisdictions. Confirm legality with local officials before transmitting, or you could wind up against a wall facing a firing squad in some areas.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: 13 Jun 94 07:45:29 GMT
From: news.delphi.com!BIX.com!jdow@uunet.uu.net
Subject: scrambling for HF/SSB?
To: ham-equip@ucsd.edu

gary@ke4zv.atl.ga.us (Gary Coffman) writes:

>amount of the speech. For really secure scrambling, you need to take a digital
>approach, and that's quite expensive, and unsuited to amateur grade HF SSB
>radios. The military has these, but civilian availability ranges from quite
>limited to non-existent.

>--

>Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
>Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
>534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
>Lawrenceville, GA 30244				

It might be entertaining to try to figure out how to hook up a STU-II through an HF transceiver. But it sounds like a royal PITA to make it work right. The radios and atmospherics would have to pretty closely mimic a telephone connection if it is to work reliably.

{^_^}

(A STU-III is a crypto telephone which comes in two models, one for "real" US use by embassies and military for "sorta" classified stuff and the other is for "export" to those who "have a need for one" and are parts of foreign governments etc etc. It is AWFULLY hard to get a paid if you're merely a civilian.)

Date: 12 Jun 94 04:18:45 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!noc.near.net!ipswitch!ddl@network.ucsd.edu
Subject: seek old CDR rotor (or replacement)
To: ham-equip@ucsd.edu

I'm looking for an old rotor (model HAM-M) made by Cornell-Dubilier Electronics (rotor division) once of Fuquay Springs, North Carolina. The original was from ~1968 and the company has moved or ceased to exist. I'd appreciate any information about where they are now (if they are) or about a mechanically compatible replacement. Electrical compatibility is not particularly important. (The reason mechanical compatibility is important is that the rotor was mounted using their custom bottom plated rather than a pole. The plate is well attached to the tower, and the whole thing is well weathered. Using a different style of mounting looks like major work. :)

Thanks,
Dan Lanciani
ddl@harvard.*

Date: Sun, 12 Jun 1994 14:43:47 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
crisp@network.ucsd.edu
To: ham-equip@ucsd.edu

References <brett_miller.294.001276FE@ccm.hf.intel.com>,
<crispCr8Fvy.7L0@netcom.com>, <2te51k\$kj@triton.unm.edu>,,
Subject : Re: Icom R100

In article <2te51k\$kj@triton.unm.edu> roberts@unm.edu (Robert Smathers) writes:
>In article <crispCr8Fvy.7L0@netcom.com>,
>Richard Crisp <crisp@netcom.com> wrote:

